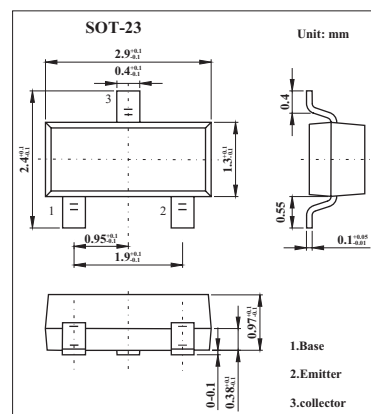


■ Features

- Low current (max. 100 mA)
- Low voltage (max. 50 V).



■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	60	V
Collector-emitter voltage	V_{CEO}	50	V
Emitter-base voltage	V_{EBO}	6	V
Collector current (DC)	I_C	100	mA
Peak collector current	I_{CM}	200	mA
Peak base current	I_{BM}	100	mA
Total power dissipation $T_{amb} \leq 25^\circ\text{C}; *$	P_{tot}	250	mW
Storage temperature	T_{stg}	-65 to +150	$^\circ\text{C}$
Junction temperature	T_j	150	$^\circ\text{C}$
Operating ambient temperature	T_{amb}	-65 to +150	$^\circ\text{C}$
Thermal resistance from junction to ambient *	$R_{th\ j-a}$	500	K/W

* Transistor mounted on an FR4 printed-circuit board.

2PD601A

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector cut-off current	ICBO	IE = 0; VCB = 60 V			10	nA
		IE = 0; VCB = 60 V; Tj = 150°C			5	μA
Emitter cut-off current	IEBO	IC = 0; VEB = 5 V			10	nA
DC current gain	2PD601AQ 2PD601AR 2PD601AS	hFE IC = 2 mA; VCE = 10 V; *	160		260	
			210		340	
			290		460	
DC current gain	hFE	IC = 100 mA; VCE = 2 V;	90			
Collector-emitter saturation voltage	VCEsat	IC = 100 mA; IB = 10 mA; *			500	mV
Collector capacitance	Cc	IE = ie = 0; VCB = 10 V; f = 1 MHz			3.5	pF
Transition frequency	2PD601AQ 2PD601AR 2PD601AS	fT IC = 2 mA; VCE = 10 V; f = 100 MHz *	100			MHz
			120			
			140			

* Pulse test: tp ≤ 300 μs; δ ≤ 0.02.

■ Marking

Type Number	2PD601AQ	2PD601AR	2PD601AS
Marking	ZQ	ZR	ZS